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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/682,196	10/10/2003 Dorel Ioan Toma		243414US6YA	1260
	7590 02/26/200 AK, MCCLELLAND I	EXAMINER		
1940 DUKE ST ALEXANDRIA	FREET	NGUYEN, THANH T		
ALEXANDRIA	1, VA 22314	ART UNIT	PAPER NUMBER	
		2813		
		NOTIFICATION DATE	DELIVERY MODE	
			02/26/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Office Action Communication		Application	Application No. Applicant(s)						
		10/682,196	3	TOMA ET AL.					
	Office Action Summary		Examiner		Art Unit				
			THANH T.	NGUYEN	2813				
 Period for	The MAILING DATE of this commun Reply	nication appe	ears on the	cover sheet with the c	orrespondence ad	idress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)⊠ 5	Responsive to communication(s) file	ed on <i>04 Jar</i>	nuary 2008						
·	•	2b)⊠ This a	-						
′=		<i>,</i> —			secution as to the	a marite ie			
· —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
C	loged in accordance with the practi	ice dilaci Ex	parte Que	yic, 1999 O.D. 11, 40	00.0.210.				
Dispositio	n of Claims								
4)× C	claim(s) <u>52 <i>and 54-61</i></u> is/are pendin	ng in the app	lication.						
4	4a) Of the above claim(s) is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.								
6)× C	6)⊠ Claim(s) <u>52, 54-61</u> is/are rejected.								
· · · · · · · · · · · · · · · · · · ·	Claim(s) is/are objected to.								
•	claim(s) are subject to restric	ction and/or	election re	quirement.					
Applicatio									
		o Evaminar							
•	ne specification is objected to by the			Tablested to by the I	Evaminor				
-	ne drawing(s) filed on is/are		-	-					
	pplicant may not request that any obje					ED 4 4047 I)			
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority un	der 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Notice (3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (Fition Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	PTO-948)		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate				

DETAILED ACTION

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Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/4/08 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 52, 54-61 are rejected under 35 U.S.C. 102(e) as being anticipated by Matsuura (U.S. Patent Publication No. 2003/0089988).

Referring to figures 8-18, Matsuura teaches a method of treating a dielectric film comprising:

etching a portion of said dielectric film (24)so as to form in said dielectric film a sidewall surface (see figure 9, paragraph# 83); and

exposing said sidewall surface at least one of TMCTS and OMCTS (see paragraph# 64, wherein said dielectric film has a dielectric constant value (1.8-3.0, see paragraph# 40) less than the dielectric constant of SiO₂.

Regarding to claim 54, forming a mask (25, see figure 8, paragraph# 83)on said dielectric film (24); and forming a pattern in said mask (see figure 8-9, paragraphs#80-85), wherein said etching comprises transferring said pattern in said mask (25) to said dielectric film (24, see figure 9).

Regarding to claim 55, exposing said sidewall surface to at least one of a nitrogen containing material and a chlorine containing material (see paragraph# 62).

Regarding to claim 56, the dielectric film has a dielectric constant in a range of from 1.6 to 2.7 (see paragraph# 40).

Regarding to claim 57, the dielectric film is porous (see paragraph# 40).

Regarding to claim 58, the dielectric film is non-porous (see paragraph# 40).

Regarding to claim 59, heating the dielectric film to a temperature in a range of from 50C to 400C (see paragraph# 66. It is inherent that anneal to form a silicon carbide film would facilitate annealing the dielectric film as well *See* In re Best, 195 USPQ 428 (CCPA 1977) and In re Fitzgerald, 205 USPQ 594 (CCPA 1980).

Regarding to claim 60, the sidewall surface is exposed to TMCTS (see paragraph# 64).

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Regarding to claim 61, the sidewall surface is exposed to OMCTS (see paragraph# 64).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thanh Nguyen whose telephone number is (571) 272-1695, or by

Email via address Thanh.Nguyen@uspto.gov. The examiner can normally be reached on

Monday-Thursday from 6:00AM to 3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Carl Whitehead, can be reached on (571) 272-1702. The fax phone number for this

Group is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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system, contact the Electronic Business center (EBC) at 866-217-9197 (toll-free).

/Thanh T. Nguyen/
Thanh Nguyen

Primary Examiner, Art Unit 2813